

ABSTRACT OF THE DISCLOSURE

5 A method and apparatus for cleaning incipient build-up of commutation byproducts from the commutators and brushes of a DC motor actuator for an air intake valve on an internal combustion engine. A controller for controlling the position of the intake air control valve is programmed via an algorithm to force the air control valve, abruptly and rapidly, to its open and/or closed position at
10 least once at predetermined times in the engine's operating cycle, preferably immediately after engine shutdown. Such abrupt and rapid motion of the motor breaks loose such incipient build-up and thereby maintains the motor actuator at a high power output.

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